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PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, volume 5, no. 3, March, 1919: "Tables of the zonal spherical harmonic of the second kind $Q_1(z)$ and $Q_{11}(z)$ " by A. G. Webster and W. Fisher, 79-82.—No. 4, April: "On the real folds of Abelian varieties" by S. Lefschetz, 103-106; "Covariants of binary modular groups" by O. E. Glenn, 107-110; "The general solution of the indeterminate equation: $Ax + By + Cz + \dots = r$ " by D. N. Lehmer, 111-114.

RECORD OF THE AMERICAN INSTITUTE OF ACTUARIES, Chicago, volume 7, June, 1918: Review by E. B. Escott of Running's *Empirical Formulae* (New York, 1917), 55-60.

SCHOOL SCIENCE AND MATHEMATICS, volume 19, no. 4, April, 1919: "The case method of teaching mathematics" by G. A. Miller, 344-349; "On the relations of mathematics to commerce" by R. E. Moritz, 350-357; "Plane geometry for the ninth and tenth grades" by R. R. Goff, 357-358; "Notes on 'Bolshevik Multiplications,'" 359-361; "Problems and solutions," 372-376.

SCIENCE, new series, Volume 44, March 14, 1919: "Cross-section lines on blackboards and their illumination" by P. F. Gaehr, 265. ["Those who wish cross-section rulings on blackboards temporarily, thus leaving the board free for other work after the curve-plotting is finished, can do so by a simple device. On a sheet of white paper make a ruling of lines, 2 cm. apart, the whole grid 16 x 24 cm., and the lines not quite one mm. thick. Take a photograph of this, making the camera image the size of a lantern-slide. Mount the negative in a lantern, projecting the image on the blackboard. A lantern equipped with a 400-watt Mazda lamp will make the lines sufficiently visible for plotting even in a well-lighted room. The lines are erased by turning off the lamp."]—May 9: "Apropos of the proposed historical science section" [of the American Association for the Advancement of Science] by G. A. Miller, 447-448.

SCIENTIA, Bologna, volume 25, no. 3, March, 1919: "The place of Tycho Brahe in the history of astronomy" by J. L. E. Dreyer, 177-185, (French translation, supplement, 39-47); Review by P. E. B. Jourdain of Forsyth's *Theory of Functions of a complex variable*, Third Edition (Cambridge, 1918), 232-233.

SIGMA XI QUARTERLY, volume 6, no. 3, September, 1918: "In memoriam, Henry Shaler Williams (1847-1918)" (Portrait), 53-74. [Professor Williams was the founder of the Sigma Xi Society, and was elected the first president of the first chapter which was established at Cornell University in 1887.]

TEXAS MATHEMATICS TEACHERS' BULLETIN, volume 4, no. 2, February, 1919: "The State Teachers' Association" by J. W. Calhoun, 3; "A neglected opportunity" by H. Y. Benedict, 4-7; "The mathematics club in the high school" by C. E. LaMaster, 8-12; "Military applications of mathematics" by E. J. Oglesby, 13-15; "Factoring in first year algebra" by Mattie R. Watson, 16-18; "Geometry notebooks" by Mrs. Helen Bolton, 19-21; "Combining arithmetic and algebra in the high school" by L. V. Stockard, 22-24; "Can I interest all the pupils in geometry" by Mildred Watkins, 25-28; "The straight edge," 29.

TRANSACTIONS OF THE ROYAL SOCIETY OF CANADA, series 3, volume 12, December, 1918, section 3: "Rational plane anharmonic cubics" by A. M. Harding, 185-195.

AMERICAN DOCTORAL DISSERTATIONS.

L. C. COX, *The finite groups of birational transformations of a net of cubics*. [Reprinted from *American Journal of Mathematics*, volume 39, 1917.] Pp. 59-74. (Cornell, 1915.)

J. V. DE PORTA, *Irrational involutions on algebraic curves*. [Reprinted from *American Journal of Mathematics*, volume 40, 1918.] Pp. 47-68. (Cornell, 1916.)

T. R. HOLLCROFT, *A classification of general (2, 3) point correspondences between two planes*. [Reprinted from *American Journal of Mathematics*, vol. 41, 1919.] Pp. 5-24. (Cornell, 1917.)

ANNA M. HOWE, *The classification of plane involutions of order (3)*. [Reprinted from *American Journal of Mathematics*, volume 41, 1919.] Pp. 25-48. (Cornell, 1917.)

J. H. MINNICK, *An investigation of certain abilities fundamental to the study of geometry*. Lancaster, Pa., New Era, 1918. Sm. 4to. 8 + 108 pages. (University of Pennsylvania, 1918.)